



US009919939B2

(12) **United States Patent**
Rosko et al.

(10) **Patent No.:** **US 9,919,939 B2**
(45) **Date of Patent:** **Mar. 20, 2018**

(54) **OZONE DISTRIBUTION IN A FAUCET**

(71) Applicant: **Masco Corporation of Indiana,**
Indianapolis, IN (US)

(72) Inventors: **Michael Scot Rosko**, Greenwood, IN (US); **Patrick B. Jonte**, Zionsville, IN (US); **Adam M. DeVries**, Anderson, IN (US); **Kurt J. Thomas**, Indianapolis, IN (US); **Joel D. Sawaski**, Indianapolis, IN (US)

(73) Assignee: **Delta Faucet Company**, Indianapolis, IN (US)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 408 days.

(21) Appl. No.: **14/362,764**

(22) PCT Filed: **Dec. 6, 2012**

(86) PCT No.: **PCT/US2012/068283**

§ 371 (c)(1),

(2) Date: **Jun. 4, 2014**

(87) PCT Pub. No.: **WO2013/086217**

PCT Pub. Date: **Jun. 13, 2013**

(65) **Prior Publication Data**

US 2014/0352799 A1 Dec. 4, 2014

Related U.S. Application Data

(60) Provisional application No. 61/567,392, filed on Dec. 6, 2011.

(51) **Int. Cl.**

C02F 1/78 (2006.01)

E03C 1/05 (2006.01)

(Continued)

(52) **U.S. Cl.**

CPC **C02F 1/78** (2013.01); **E03C 1/055** (2013.01); **C02F 1/4672** (2013.01);
(Continued)

(58) **Field of Classification Search**

None

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

2,778,800 A 1/1957 Sheahan
3,653,514 A * 4/1972 Holler B01J 49/0086
210/281

(Continued)

FOREIGN PATENT DOCUMENTS

CA 2945136 10/2015
CN 1675435 9/2005

(Continued)

OTHER PUBLICATIONS

US 7,959,787, 06/2011, Field et al. (withdrawn)

(Continued)

Primary Examiner — Richard Gurtowski

(74) *Attorney, Agent, or Firm* — Faegre Baker Daniels LLP

(57) **ABSTRACT**

A faucet for dispensing a fluid includes a spout, a pull-out spray head removably coupled to the spout and including an outlet, and a valve assembly in fluid communication with the outlet. Additionally, the faucet includes a fluid treatment assembly configured to output a treatment into the fluid. The faucet further comprises a first flow path and a second flow path.

16 Claims, 21 Drawing Sheets

